



National Weather Service, Portland

Salem (SLE)

1991-2020 Climate Normals

The new 1991-2020 climatic averages for Salem have shown a general increase in temperatures, with the largest changes being May, as well as the summer months of July and August. Trends with precipitation are more mixed, with wetter months overall, except for summer months (*June through August*). Total annual rainfall increased 0.41 inch (*1% increase*) over the prior normals (*1981-2010*).

Highlights

- Warmer through the year, with largest temperature increases in May, July and August
- Warm summers nights, with average overnight lows up ~2 deg for July to early September
- Drier summers, with July precipitation down 46% (*from 0.46" down to 0.25"*)
- Overall, a bit more precipitation for all months/seasons, especially spring and fall

1991-2020 ANNUAL Normals and Changes (*compared to 1981-2010 normals*)

	Temperature Data					Precipitation Data				
	Mean T	Max T	Min T	Tx≥90	Tn≤32	Total	DY≥.01	DY≥.10	DY≥.50	DY≥1.0
Normal	54.2°	64.5°	43.9°	15.3	49.4	40.08"	147.9	91.5	25.4	6.2
Δ normals	+1.2°	+0.9°	+1.4°	+0.6	-0.3	+0.41"	+3.6	+0.6	+0.4	-0.3

1991-2020 SEASON¹ Normals and Changes (*compared to 1981-2010 normals*)

	Temperature Data					Precipitation Data				
	Mean T	Max T	Min T	Tx≥90	Tn≤32	Total	DY≥.01	DY≥.10	DY≥.50	DY≥1.0
Winter										
Normal	42.4°	49.2°	35.6°	0	33.1	17.59"	53.0	35.9	12.4	3.4
Δ norms	+1.0°	+0.8°	+1.2°	0	-0.1	+0.21"	+2.1	+0.3	+0.2	0.0
Spring										
Normal	52.2°	62.5°	41.9°	0.4	8.3	9.72"	44.8	26.9	5.3	0.8
Δ norms	+1.0°	+0.7°	+1.4°	+0.1	-0.8	+0.70"	+1.5	+1.1	+0.5	+0.2
Summer										
Normal	67.1°	80.6°	53.6°	13.1	0	1.89"	13.5	6.1	0.6	0.1
Δ norms	+1.5°	+1.1°	+1.8°	+0.8	0	-0.57"	-0.9	-0.5	-0.5	-0.1
Fall										
Normal	54.9°	65.3°	44.5°	1.9	7.9	10.88"	36.6	22.6	7.1	1.9
Δ norms	+1.2°	+0.8°	+1.5°	-0.1	+0.6	+0.07"	+0.9	-0.3	+0.2	-0.1

¹ Winter months are DJF (Dec, Jan, Feb), Spring (MAM), Summer (JJA), and Fall (SON).



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1991-2020 Normals for Temperature (and change, Δ , as compared to 1981-2010 normals)

	Mean T	Δ T	Max T	Δ Tx	Min T	Δ Tn	Days Tx \geq 90	Δ Tx90	Days Tn \leq 32	Δ Tn32
Jan	42.1	+0.9	48.4	+0.7	35.8	+1.1	0	0	11.0	-0.1
Feb	44.0	+0.9	52.1	+0.5	35.9	+1.3	0	0	10.2	+0.1
Mar	47.5	+0.6	56.8	+0.3	38.3	+1.1	0	0	6.3	-0.1
Apr	51.3	+0.9	61.6	+0.5	41.0	+1.4	0	0	1.9	-0.6
May	57.7	+1.5	69.0	+1.2	46.3	+1.6	0.4	+0.1	0.2	0.0
Jun	62.7	+1.1	74.6	+0.7	50.8	+1.5	1.5	0.0	0	0
Jul	69.3	+1.7	83.5	+1.5	55.1	+2.0	6.0	+0.6	0	0
Aug	69.2	+1.6	83.6	+1.2	54.8	+2.0	5.6	+0.2	0	0
Sep	64.0	+1.4	77.5	+0.7	50.6	+2.2	1.9	-0.1	0	-0.1
Oct	54.3	+1.1	64.8	+0.7	43.9	+1.6	0	0	1.4	+0.1
Nov	46.3	+0.8	53.6	+1.0	39.0	+0.6	0	0	6.5	+0.6
Dec	41.3	+1.2	47.4	+1.2	35.1	+1.1	0	0	11.9	-0.1

1991-2020 Normals for Precipitation (and change, Δ , as compared to 1981-2010 normals)

	Total (inches)	Δ P (inch)	Δ P (%)	Days P \geq 0.01	Δ D01	Days P \geq 0.10	Δ D10	Days P \geq 0.50	Δ D50	Days P \geq 1.00	Δ D1
Jan	6.08	+0.12	+2.0%	18.2	0.0	12.5	0.0	4.4	+0.1	0.9	-0.1
Feb	4.54	-0.02	-0.4%	15.9	+0.3	10.3	+0.3	2.9	-0.1	0.8	+0.1
Mar	4.35	+0.36	+9.0%	17.5	+0.1	11.0	+0.1	2.8	+0.4	0.5	+0.1
Apr	3.12	+0.31	+11.0%	15.7	+1.2	9.6	+1.2	1.4	0.0	0.2	+0.1
May	2.25	+0.03	+1.4%	11.6	-0.2	6.3	-0.2	1.1	+0.1	0.1	0.0
Jun	1.25	-0.30	-19.4%	8.0	-0.2	3.9	-0.2	0.5	-0.3	0.1	-0.1
Jul	0.25	-0.21	-45.7%	2.3	-0.3	0.8	-0.3	0.1	-0.1	0	-0.2
Aug	0.39	-0.06	-13.3%	3.2	0.0	1.4	0.0	0	-0.1	0	-0.1
Sep	1.46	+0.18	+14.1%	6.4	+0.1	3.4	+0.1	0.9	+0.2	0.2	0.0
Oct	3.47	+0.44	+14.5%	12.5	+0.8	7.3	+0.8	2.2	+0.3	0.5	+0.2
Nov	5.95	-0.55	-8.5%	17.7	-1.2	11.9	-1.2	4.0	-0.3	1.2	-0.3
Dec	6.97	+0.11	+1.6%	18.9	+0.7	13.1	0.0	5.1	+0.2	1.7	0.0

For more information, visit the National Weather Service Portland at: weather.gov/portland
or NOAA's New 1991-2020 Climate Normals at: www.ncei.noaa.gov/products/climate-normals